Infosystem Remote Panel Setup Instructions

Overview

Novar Controls Corporation's Infosystem remote panel's touchscreen provides user-friendly, finger-tip access to the Novar Controls Logic One® Building Management System. It can be used to:

- Navigate through the Logic One system.
- Manage and check equipment status.
- Monitor and adjust various critical temperatures and operating parameters.
- View critical facilities management information.
- Make schedule changes.
- Obtain operational and diagnostic information.

Depending on how the remote panels are used, either of the following communication protocols can be used for the LAN communications:

- Ethernet
- MOD 2

If a Savvy® is set up with more than one touchscreen, Ethernet must be used. If the Savvy is set up with just one touchscreen (integral or remote), either Ethernet or MOD 2 can be used. Ethernet must be used with a Lingo®.

The communications protocol that will be used for the system's local-area netwrok (LAN) communications must be determined before the remote panel can be set up. If Ethernet® will be used, the following information must be obtained.

INFORMATION	EXPLANATION
MAC Addresses	The setup person should obtain these addresses from the labels on the executive module and the remote panel and give them to the system administrator.
IP Addresses	The setup person should obtain the following IP addresses from the system administrator: ■ IP addresses for the controller and the remote panel. ■ Subnet Mask IP address ■ Default Gateway IP Address
Boot P Service Availability	The setup person should find out from the system administrator if Boot P services are available and used.

Once this information has been obtained, the remote panel can be set up. It involves:

- Completing the following tasks in ESS32 to download the proper information to the controller:
  - — Creating the remote panel as part of the system in the ESS32 Unit Directory.
  - — Entering the proper LAN configuration for the system into ESS32.
  - — Entering the proper IP addresses for the remote panel and the controller into the Network Parameters in ESS32.

- Accessing the Panel Setup Menu
- Entering the LAN parameters in the remote panel.
- Identifying the unit to be viewed (the executive module to be monitored) by entering the unit number into the remote panel.

This document explains how to complete each of these tasks.

Completing the Necessary ESS32 Tasks

Creating the Remote Panel and Configuring the LAN

NOTE! No matter which communication protocol (Ethernet or MOD2) is used, the following procedure must be completed.

Step	Procedure
1	Access the ESS Menu—Modes of Operation screen and select the **System Format** option to open the System Directory.
2	Select the system to which the remote panel should be added and press **enter** to open the System Menu.
3	Create the remote panel in ESS32. ■ Select **1** (Modify) in the System Menu and press **enter** to access the Unit Directory. ■ Select an unassigned number and the **Create** option and follow the prompts to add the remote panel to the Unit Directory. ■ Press **enter** to return to the System Menu.
4	Configure the LAN: ■ Access the Unit Directory/System Menu, select **17** (Communication Parameters), and press **enter** to access the Communications Parameters Menu. ■ Select **33** (System Communications Parameters) and press **enter** to access the System Communications Parameters screen. ■ Press **Tab** to display the second screen containing System Communications Parameters. ■ Select **6** (LAN Communications) and press **enter** to produce a popup screen showing the communication options available. ■ Select **Ethernet** or **MOD2** and press **enter**. — If **MOD2** is selected, a popup screen showing the Baud Rate options will appear. Select **115K** and press **enter**. — If **Ethernet** is selected, no baud rate applies. Novar Controls recommends that the **115K** setting be selected.
5	Press **enter** repeatedly to back out of the system. ■ If Ethernet is being used, stop when the System Menu is displayed.

Entering the IP Addresses for the Remote Panel and the Controller

NOTE! The following procedure should only be completed only if the Ethernet communication protocol is to be used.

Step	Procedure
1	Access the System Menu and select the **Network Parameters** option to open the Network Parameters screen.
2	Select option **1** (Unit) to display the Internal Modem, RS-232, and Ethernet access numbers for the units created in the system. ■ If no numbers have been entered, they should be entered here.
3	Select option **1** to display a popup screen listing the units available in the system, use the keyboard arrow keys to move the cursor to (highlight) the **Remote** option, and press **enter**.
4	Type in the remote panel's IP address and press **enter**.
5	Press **enter** repeatedly to back out of the system.

NOTE! Once this information has been entered, a Load Change download must be performed on the executive module before it can communicate with the remote touchscreen.

Accessing the Remote Panel's Setup Menu

Once the necessary ESS32 tasks have been completed, the remote panel can be set up. The following procedure should be used to access the remote panel's setup menu.

Step	Procedure
1	Power up the remote panel. ■ The remote panel should produce a tone to indicate it is receiving power and display the following information: — "Novar" (in large letters across the top of the screen) — "Starting Version" — ROM version number **NOTE!** If "System Check" appears instead of "Starting Version," a version download needs to be performed. This is not likely to happen, however, because all Novar Controls executive modules and remote panels receive a version download before they are shipped.

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Step	Procedure
2	Press any letter in the "Novar" name within 10 to 15 seconds after the name appears on the screen to access the Panel Setup Menu. **NOTE!** If the user fails to access the menu within the allotted time, the Novar Controls Corporation Energy Infosystem screen appears. If this happens, the user must power down the equipment and start the procedure over to access the menu.

The menu offers the following options:

- LAN Setup
- Unit to View
- Exit

Setting the LAN Parameters

Selecting the **LAN Setup** option in the Panel Setup Menu opens the screen used to select the LAN settings for the remote panel.

NOTE! The settings entered here must match the settings established in ESS32.

To display the options available for a parameter, the user must press the field to the right of each parameter.

PARAMETER	EXPLANATION
Unit Number	When this field is selected, a keypad appears so the user can enter the remote panel's assigned number from the ESS32 Unit Directory.
LAN Type	When this field is selected, the setup person is offered two communications protocol options: ■ **Ethernet** ■ **MOD 2**
Boot P	*If MOD 2 is used, this parameter does not apply.* When this field is selected, the setup person is offered two options: ■ **Yes** (Boot P services are available from the network.) ■ **No** (Boot P services are not available.) *continued*

PARAMETER	EXPLANATION
MAC Address	The MAC address should never be changed. This is a unique identification number assigned to the unit by the manufacturer. It must be given to the system administrator. The MAC address is printed on the label attached to the unit.
Ethernet IP Gateway IP Subnet Mask	*If MOD 2 is used, these parameters do not apply.* The setup person must obtain these IP addresses from the system administrator and enter them here manually.
Test IP Address Alarms to test IP Ping Test IP	These items should not be changed. They are diagnostic tools intended to be used by Novar Controls Technical Support only.

Once the parameters have been set, the user must press **save** to save the information that was entered and exit the screen or press **exit** to exit the screen without saving the information.

Identifying the Unit to View

When the user selects the **Unit to View** option in the Panel Setup Menu, a screen displays the following options.

OPTION	EXPLANATION
IP Address to View	If Ethernet is used as the communications protocol, the IP address of the executive module to be monitored via this remote panel must be entered. If MOD 2 is used as the communications protocol, this field should be left blank.
Unit Number to View	The user must enter the ESS32 Unit Directory number assigned to the executive module to be monitored.

Once the executive module to be monitored has been identified, the user must press **save** to save the information that was entered and close the screen or **exit** to close the screen without saving the information.

Checking the Setup

When the system returns to the Panel Setup Menu, the user can press **exit** to close the menu. The screen should go blank briefly, and the panel should produce three tones (indicating that the unit is proceeding through its boot up routine). Following this, the Novar Controls Corporation Energy Infosystem screen should appear and briefly display the word "Alarms." This indicates that the remote panel is properly downloaded and running but is not yet communicating with the controller.

- If the communications setup is correct, after a few seconds, the remote panel begins to communicate with and receive data from the controller. At this point, the remote panel displays the following information:

  — Date, time, and temperature
  — System number and name
  — Unit number and name

  When the **Access Code** button appears at the bottom of the screen, the setup is complete and the panel is communicating with the executive module. People can begin accessing and using the panel.

- If the communication setup is not correct, the screen continues to display the "Alarms" message. The IP addresses and all information entered in ESS32 and in the remote panel's setup screens must be checked to make sure it is correct.

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